

## APPLICATION FOR UNITED STATES PATENT DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: IMPROVED STRUCTURE OF GAS SENSOR ELEMENT DESIGNED TO MINIMIZE ERROR OF SENSOR OUTPUT  
described and claimed in the specification:

**Check one**

- \*a.  attached hereto.  
b.  filed on \_\_\_\_\_ as Application No. \_\_\_\_\_ and amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

Under Title 35, U.S. Code §119, the priority benefits of the following foreign application(s) and/or United States provisional application(s) filed by me or my legal representatives or assigns within one year prior to this application are hereby claimed:

Japanese Patent Application No. 2001-32533 filed February 8, 2001  
Japanese Patent Application No. 2001-398749 filed December 28, 2001

The following application(s) for patent or inventor's certificate on this invention were filed in countries foreign to the United States of America either (a) more than one year prior to this application, or (b) before the filing date of the above-named foreign priority application(s) and/or United States provisional application(s):

I hereby appoint the following as my attorneys of record with full power of substitution and revocation to prosecute this application and to transact all business in the Patent Office:

James A. Oliff, Reg. No. 27,075; William P. Berridge, Reg. No. 30,024;  
Kirk M. Hudson, Reg. No. 27,562; Thomas J. Pardini, Reg. No. 30,411;  
Edward P. Walker, Reg. No. 31,450; Robert A. Miller, Reg. No. 32,771;  
Mario A. Costantino, Reg. No. 33,565; Stephen J. Roe, Reg. No. 34,463;  
Joel S. Armstrong, Reg. No. 36,430; Christopher W. Brown, Reg. No. 38,025; and  
Richard E. Rice, Reg. No. 31,560.

**ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE,  
PLC, P.O. BOX 19928, ALEXANDRIA, VIRGINIA 22320, TELEPHONE (703) 836-6400.**

I hereby declare that I have reviewed and understand the contents of this Declaration, and that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1	<b>Typewritten Full Name of First or Sole Inventor</b>	Keigo	Mizutani	
2	**Inventor's Signature:	Given Name	Middle Initial	Family Name
3	**Date of Signature:	Keigo Mizutani	January 28, 2002	
Residence:	Okazaki-shi	Month	Day	Year
Citizenship:	Japanese	City	State or Province	Country
Post Office Address: (Insert complete mailing address, including country)	c/o Nippon Soken Inc., 14, Iwaya, Shimohasumi-cho, Nishio-city, Aichi-pref. 445-0012 Japan			

\*If Box (a.) is checked, this form may be executed only when attached to the specification (including claims).

\*\*Note to Inventor: Please sign name exactly as it appears above and insert actual date of signing.

**IF THERE IS MORE THAN ONE INVENTOR USE PAGE 2 AND PLACE AN "X" HERE (X)**

**PAGE 2 OF U.S.A. DECLARATION FORM**  
**(Record this page in a sole inventor application)**

1	<b>Typewritten Full Name of Second Joint Inventor (if any)</b>	Hiroo	Given Name	Middle Initial	Imamura	Family Name
2	**Inventor's Signature:	<i>Hiroo Imamura</i>				
3	**Date of Signature:	<i>January 29, 2002</i>				
		Month	Day	Year		
Residence:	Nukata-gun	Aichi-ken		Japan		
	City	State or Province		Country		
Citizenship:	Japanese					
	Post Office Address: (Insert complete mailing address, including country)	<i>c/o Nippon Soken Inc., 14, Iwaya, Shimohasumi-cho, Nishio-city, Aichi-pref.</i>				
	445-0012 Japan					
1	<b>Typewritten Full Name of Third Joint Inventor (if any)</b>	Daisuke	Given Name	Middle Initial	Makino	Family Name
2	**Inventor's Signature:	<i>Daisuke Makino</i>				
3	**Date of Signature:	<i>January 29, 2002</i>				
	Month	Day	Year			
Residence:	Ichinomiya-shi	Aichi-ken		Japan		
	City	State or Province		Country		
Citizenship:	Japanese					
	Post Office Address: (Insert complete mailing address, including country)	<i>c/o Nippon Soken Inc., 14, Iwaya, Shimohasumi-cho, Nishio-city, Aichi-pref.</i>				
	445-0012 Japan					
	<b>Typewritten Full Name of Fourth Joint Inventor (if any)</b>	Akio	Given Name	Middle Initial	Tanaka	Family Name
2	**Inventor's Signature:	<i>Akio Tanaka</i>				
3	**Date of Signature:	<i>January 29, 2002</i>				
	Month	Day	Year			
Residence:	Gifu-shi	Gifu-ken		Japan		
	City	State or Province		Country		
Citizenship:	Japanese					
	Post Office Address: (Insert complete mailing address, including country)	<i>c/o DENSO CORPORATION, 1-1, Showa-cho, Kariya-city, Aichi-pref.</i>				
	448-0029 Japan					
1	<b>Typewritten Full Name of Fifth Joint Inventor (if any)</b>	Given Name	Middle Initial	Family Name		
2	**Inventor's Signature:					
3	**Date of Signature:					
	Month	Day	Year			
Residence:	City	State or Province		Country		
Citizenship:						
	Post Office Address: (Insert complete mailing address, including country)					

**Note to Inventors:** Please sign name exactly as it appears and insert the actual date of signing. This form may be executed only when attached to the first page of the Declaration and Power of Attorney form of the application to which it pertains.